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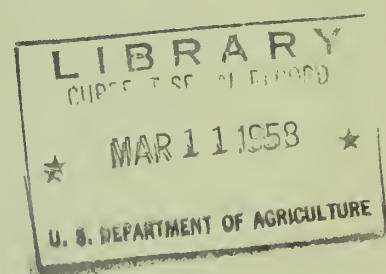


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Checking Mountain Soil Moisture Under the Snow, an important factor in snowmelt runoff.

Federal-State Cooperative  
Snow Surveys and Water Supply Forecasts  
for  
**ARIZONA**



SOIL CONSERVATION SERVICE  
UNITED STATES DEPARTMENT OF AGRICULTURE

Data included in this report were obtained by the agency named above in cooperation with the Federal, State and local organizations listed on the last page of this report.

AS OF  
MAR. 1, 1956

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY  
AND WATER SUPPLY FORECAST REPORTS:

Snow surveys in the West are conducted each year at more than 1200 snow courses. Basin and Province or State snow survey reports summarizing the results of the measurements and forecasts of seasonal runoff and water supply are issued by the Soil Conservation Service, U. S. Department of Agriculture and some of its co-operators; the Water Rights Branch of the British Columbia Department of Lands and Forests; and the California Division of Water Resources.

Copies of the various federal-state cooperative snow survey reports listed below may be secured by writing to:

Head, Water Supply Forecasting Section  
Soil Conservation Service  
209 S. W. 5th Avenue  
Portland 4, Oregon

BASIN REPORTS:

Colorado, Rio Grande,.. Issued monthly February through May by SCS and  
and Platte-Arkansas Colorado Experiment Station, Fort Collins, Colorado.\*  
River Basins

Columbia River..... Issued monthly January through May by Soil Conserva-  
tion Service, Boise, Idaho.\*

Upper Missouri..... Issued monthly February through May by SCS and  
River Basin Montana Agricultural Experiment Station, Bozeman,  
Montana.\*

West-Wide Water..... Issued April 1 by Soil Conservation Service and  
Supply Outlook Cooperators, Portland, Oregon.

STATE REPORTS:

Arizona..... Issued semi-monthly January 15 through April 1 by SCS  
and Salt River Valley Water Users Association, Phoenix,  
Arizona.\*

Nevada..... Issued monthly February through April by SCS and  
Nevada State Engineer, Reno, Nevada.\*

Oregon..... Issued monthly January through May by SCS, Portland,  
Oregon, and Oregon Agricultural Experiment Station.\*

Utah..... Issued monthly January through May by SCS, Salt Lake  
City, Utah, and State Engineer of Utah and Utah Agri-  
cultural Experiment Station.\*

Washington..... Issued monthly February through May by SCS, Spokane,  
Washington, and State Department of Conservation and  
Development.\*

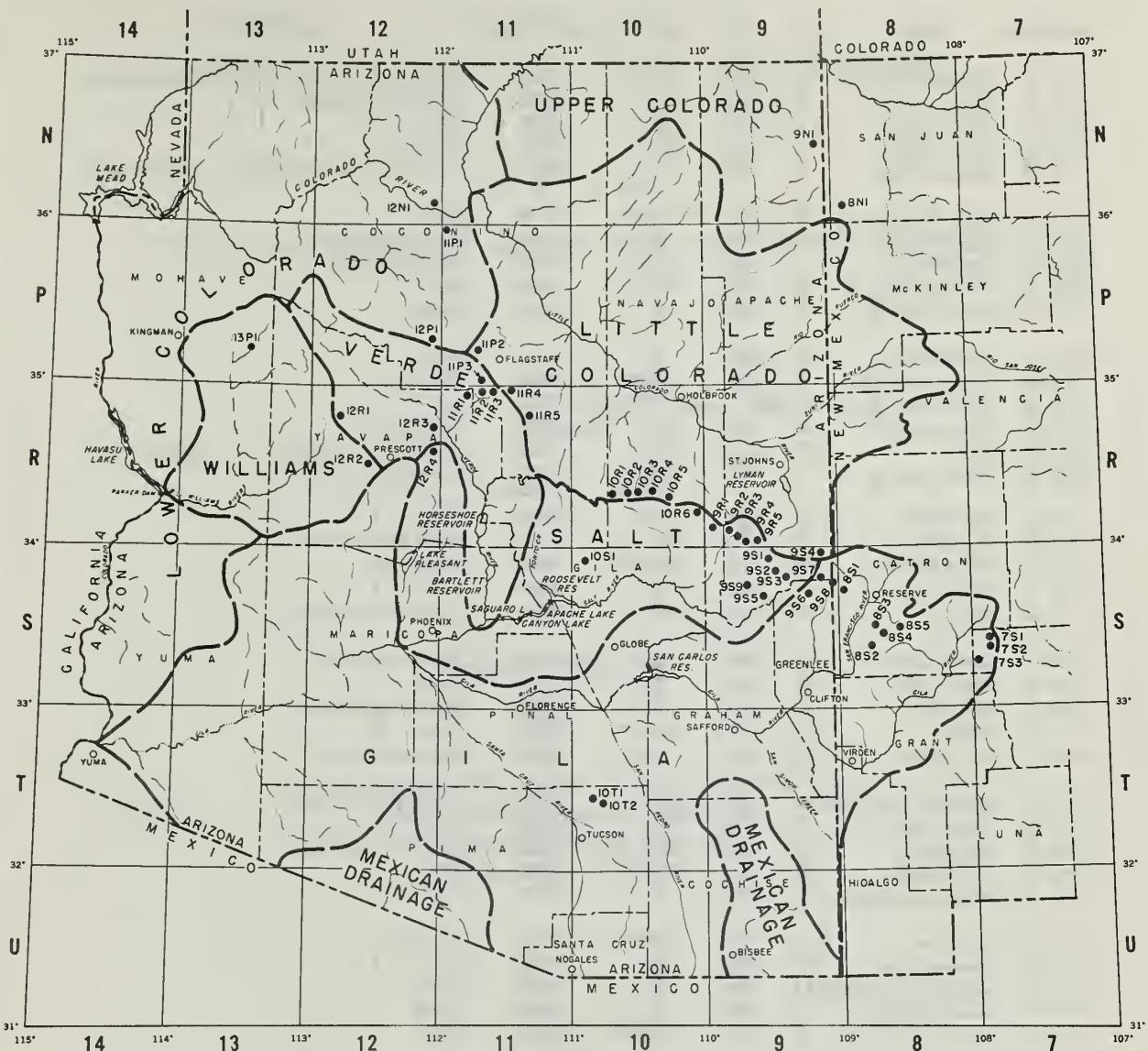
Wyoming..... Issued monthly February through May by SCS, Casper,  
Wyoming, and State Engineer of Wyoming.\*

\*Special reports are issued as needed.

The British Columbia reports are issued February 1 through June 1 and may be secured from Comptroller, Water Rights Branch, Department of Lands and Forests, Parliament Buildings, Victoria, B.C.

The California reports are issued monthly February 1 through May 1 and may be secured from Division of Water Resources, California Department of Public Works, Sacramento, California.

The annual water supply forecasts of the Weather Bureau are available in monthly bulletins published from January through May. These bulletins entitled, "Water Supply Forecasts for the Western United States" may be obtained from River Forecast Center, Weather Bureau, 712 Federal Office Building, Kansas City 6, Missouri.



**ARIZONA  
COOPERATIVE SNOW SURVEYS  
SNOW COURSES AND DRAINAGE BASINS  
JANUARY 1956**

SNOW COURSES AND DRAINAGE BASINS  
JANUARY 1956

A horizontal scale bar with numerical markings at 0, 40, 80, 120, 160, and 200. Below the scale bar, the text "SCALE IN MILES" is centered.

INDEX TO SNOW COURSES

NUMBER*	NAME	SEC	TWP	RGE**	ELEVATION	RIVER BASIN
11-P-3	Antelope Park	29	19N	8E	7300	Verde # ..... Discontinued
9-S-1	Baldy (p)	28	7N	27E	9000	Salt-Little Colorado
10-T-1	Bear Wallow	6	12S	16E	8100	Gila
9-S-6	Beaver Head	13	4N	30E	8000	Salt-Frisco
9-S-3	Big Lake Knoll	2	5N	28E	8800	Salt-Frisco-Little Colorado .. Discontinued
7-S-3	Black Canyon	8	13S	11W***	6790	Gila
12-N-1	Bright Angel	34	33N	3E	8400	Lower Colorado
12-R-1	Camp Wood	3	16N	6W	5700	Williams-Verde
10-R-3	Canyon Creek (s)	18	11N	15E	7500	Salt
11-R-2	Casner Park (s)	19	18N	8E	6950	Verde
12-P-1	Chalender (s)	27	22N	3E	7100	Verde
8-S-3	Corner Mountain	7	10S	17W***	8850	Gila-Frisco
9-S-9	Corn Creek (p)	Lat. 33° 45' N. Long. 109° 45' W. §		7730		Salt
9-S-7	Coronado Trail	26	5N	30E	8000	Salt-Frisco
10-R-2	Elk	31	11N	14E	7600	Salt-Little Colorado ..... Discontinued
10-R-6	Forest Dale (s)	2	9N	21E	6000	Salt-Little Colorado
11-P-2	Fort Valley	22	22N	6E	7350	Verde #
9-R-5	Ft. Apache	18	7N	27E	9160	Salt-Little Colorado
8-S-1	Frisco Divide	31	6S	20W***	8000	Frisco-Gila
12-R-4	Gaddes Canyon	11	15N	2E	7600	Verde #
10-R-5	Gentry	36	11N	15E	7600	Salt-Little Colorado
11-P-1	Grand Canyon	21	30N	4E	7500	Lower Colorado
11-R-5	Happy Jack	30	17N	9E	7630	Verde
10-R-4	Heber (p)	28	11N	15E	7600	Salt-Little Colorado
7-S-2	Inman	6	11S	10W***	7800	Gila
12-R-2	Iron Springs	22	14N	3W	6200	Williams-Verde
9-S-2	Maverick Fork (s)(p)	13	6N	27E	9050	Salt-Little Colorado
9-R-4	McKay Peak	13	7N	24E	8250	Salt ..... Not read
9-R-2	McNary (s)	14	8N	23E	7200	Salt-Little Colorado
9-R-1	Milk Ranch	28	8N	23E	7000	Salt
12-R-3	Mingus Mountain	3	15N	2E	7100	Verde #
8-S-2	Mogollon	2	11S	19W***	7000	Frisco-Gila
11-R-4	Mormon Lake	13	18N	8E	7350	Verde #
11-R-3	Mormon Mountain(s)	14	18N	8E	7500	Verde
11-R-1	Munds Park (s)	7	18N	7E	6500	Verde
8-S-4	N-Bar Lake	16	10S	17W***	8600	Gila
8-S-5	Negrito	6	10S	16W***	8200	Gila
9-S-4	Nutrioso	23	6N	30E	8500	Salt-Frisco-Little Colorado
9-S-5	Pacheta	§ At town of Maverick, Ariz.		7800		Salt
9-N-1	Roof Butte	15	8N	6W****	8500	Little Colorado # ..... Not read
10-T-2	Rose Canyon	15	12S	16E	7300	Gila
9-S-8	State Line	6	6S	21W***	8000	Gila-Frisco
7-S-1	Taylor Creek	20	10S	10W***	7850	Gila
9-R-3	Trout Creek	5	7N	24E	6400	Salt ..... Not read
8-N-1	Washington Pass	Lat. 36° 05' N. Long. 108° 50' W. §		8600		Little Colorado # ..... Not read
13-P-1	Willow Ranch	16	21N	11W	5000	Williams
10-R-1	Woods Canyon	15	11N	13E	7640	Salt-Little Colorado ..... Discontinued
10-S-1	Workman Creek	33	6N	14E	6900	Salt

\* Number indicates location of course within coordinate rectangle, thus 9-N 1 is Course #1 in coordinate rectangle 9-N.

\*\* All in Gila and Salt River Base and Meridian except where otherwise indicated.

\*\*\* New Mexico Principal Meridian.

\*\*\*\* Navajo Base.

# On adjacent drainage.

(s) Soil Moisture Station installed on or in vicinity of course.

§ Unsurveyed.

(p) Storage gage installed on or in vicinity of course

COOPERATIVE SNOW SURVEYS and WATER SUPPLY FORECASTS

for

A R I Z O N A

(Salt, Verde, Gila and part of Lower Colorado River Basin)

Issued

March 1, 1956

Report Prepared

by

W. E. Anderson, Snow Survey Supervisor  
Soil Conservation Service  
39 North Sixth Avenue  
Phoenix, Arizona

Issued by

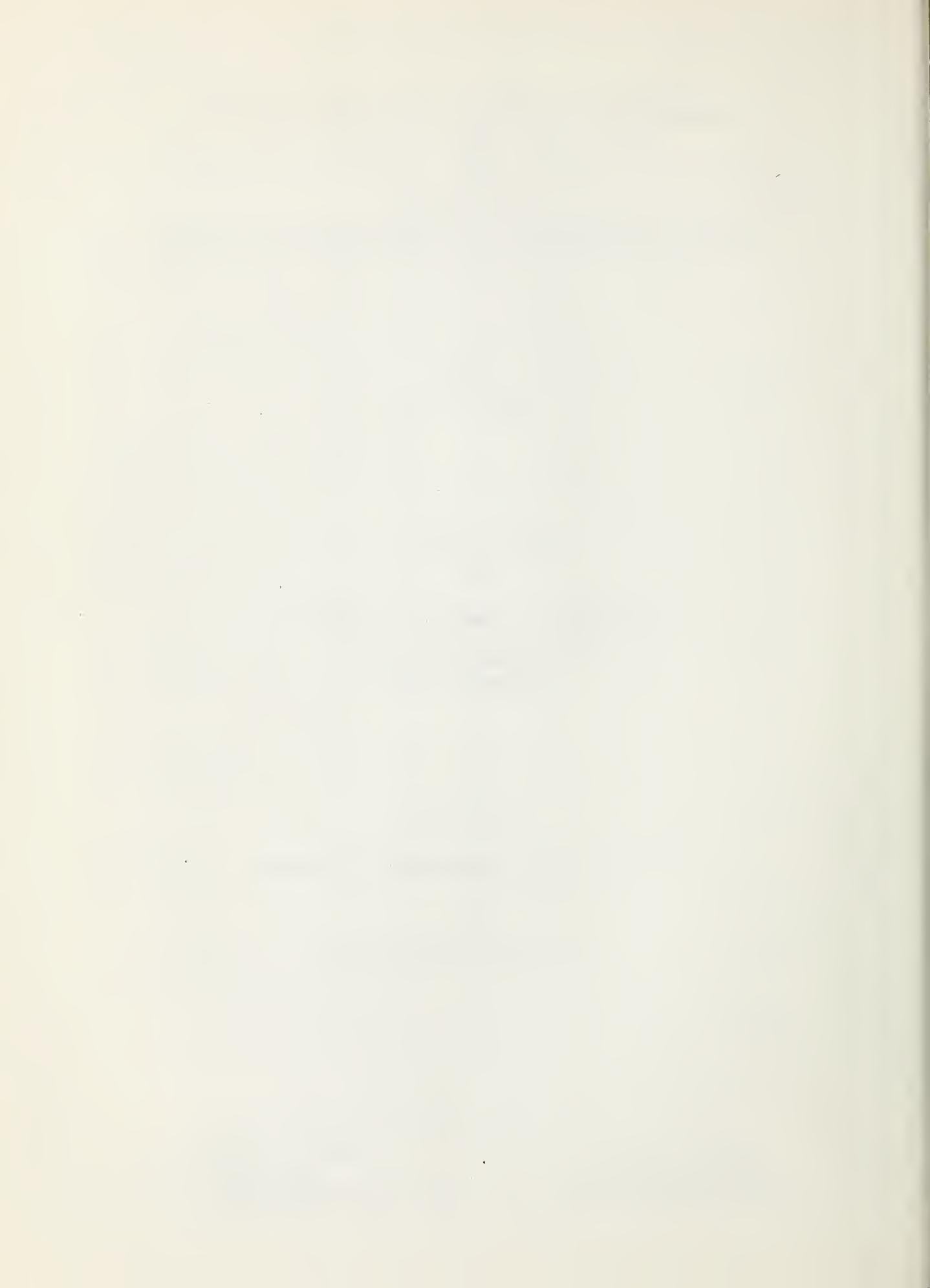
Salt River Valley Water Users' Association

and

Soil Conservation Service

Robert V. Boyle  
State Conservationist  
Soil Conservation Service

Victor I. Corbell  
President  
Salt River Valley Water Users' Assn.



## ARIZONA WATER SUPPLY OUTLOOK

March 1, 1956

## GENERAL

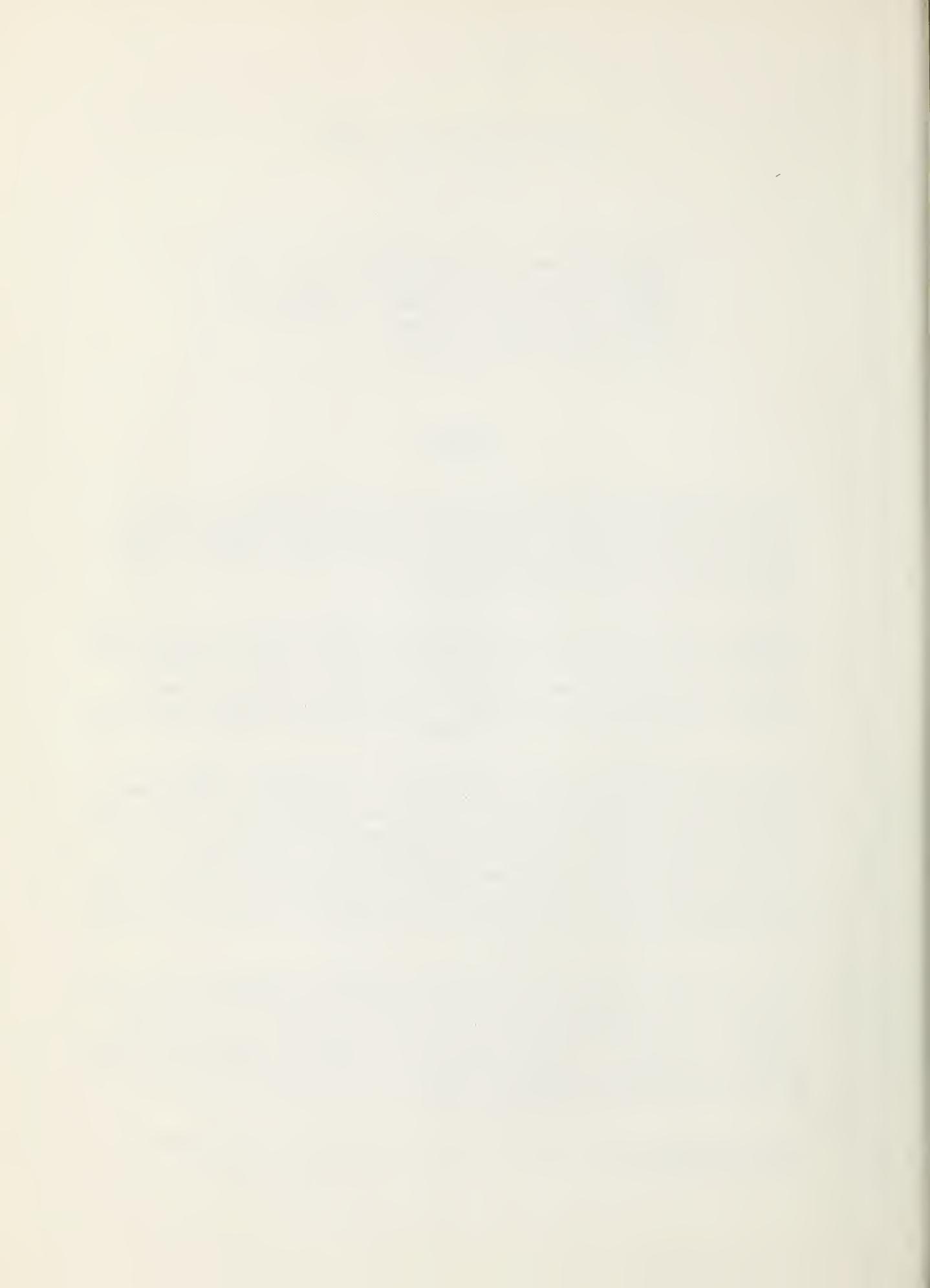
Weather conditions on the watersheds of the Salt and San Francisco Rivers and the western portion of the Gila River basin have been favorable for retention of the snow pack and little change has been observed in these areas since the last snow survey. Soil moisture conditions also have remained constant.

Weather conditions from now on will have a great effect upon the final amount of runoff obtained. Continued cold nights and warm days with fair wind movement could result in the evaporation of substantial amounts of the below-average snow pack. On the other hand, warm weather resulting in rapid melting of the snow would give an increased rate and a higher percentage of runoff than is now anticipated.

The weather conditions that have existed over the past month or more have resulted in some unusual snow cover relationships. These are observed by a comparison of the snow course summaries with the runoff forecasts, both given elsewhere in this report. On both the Salt and Gila River basins the snow cover generally is more widespread than average, but on the significant runoff producing areas it is not as deep as average, resulting in a runoff forecast of approximately 40% of the 1938-52 normal compared with an averaged snow cover of approximately 130% of the same period.

All snow courses and all soil moisture stations were read this period. Snow density is generally in the 30-35% range, and several observers commented on the existence of ice crystals in the pack. Snow cover is very spotty and variable at the lower elevation courses but quite smooth and uniform at higher elevations. Smaller streams are flowing at low elevations but there are none reported flowing at the higher courses or in the White Mountain area.

There have been no important changes in reservoir storage reported since February 15.



### SNOW COVER AND WATERSHED CONDITIONS

#### Verde River Basin

Snow line on the Verde Basin is generally about 6,500 to 7,000 feet, with some considerable areas of bare ground located in exposed positions above these elevations. Soil moisture conditions above the rim range from moist to very wet. At lower elevations the snow is all gone and soils generally are from dry to only moist.

Lake Mary and Mormon Lake are both at very low stages and no important increase in storage is expected at this time, unless weather conditions develop that are favorable for rapid runoff. Runoff into the Verde River reservoirs is expected to be only about 26% of the 1938-52 normal and will not result in increased reserves for Phoenix municipal supplies.

Late storms of considerable magnitude have occurred over this watershed quite frequently in previous years, but it would require a storm series of most unusual magnitude to result in substantial improvement in the water supply outlook for this basin.

#### Salt and Tonto River Basins

Snow cover is more widespread on this basin than for the past several years, and for courses averaged represents 124% of the 1938-52 normal. However, computations involving antecedent precipitation and snow stored water in the significant areas indicate a runoff potential of only about 48% of normal.

The effect of future weather will perhaps be more important on this basin than on any of those covered by this report. There are large areas where the soil is wet and frozen beneath the pack and which would contribute toward rapid runoff if favorable conditions should develop. If, however, present weather conditions should persist there is the possibility of large losses to evaporation and consequently reduced runoff.

Soil moisture conditions are generally good except in the lower elevations where deficient precipitation has permitted the soil to dry out. Mountain soils should support a good growth of spring grasses and better forage cover than for the past several years.

None of the snow has ripened extensively, but the warm days are contributing toward a more rapid settlement and ripening of the pack and with a continuation of present weather it can be expected that runoff rates will increase soon. Present snow densities range around 30-35%. Very few streams are running at the higher elevations, but many at lower elevations are flowing clear.



### Little Colorado River Basin

Snow cover on the White Mountain portion of this basin is slightly below average, while the part along the rim and into the San Francisco Peaks area is much below average. Some parts of the White Mountain parks are bare or covered with only a sparse mantle of snow.

Melting of low elevation snow has primed the soils and has contributed to some minor stream flow. Cold nights have retarded runoff from the higher elevations, but the limited stream flow from the lower elevations has almost filled Nelson Reservoir and the Greer lakes and has made a slight increase in the contents of Show Low Lake. It is expected that the Greer lakes will fill and spill, but the total inflow to Show Low Lake will probably not be sufficient to fill the reservoir. No volumetric forecasts are made of the prospective inflow into this lake.

Soil moisture conditions are very good at high elevations and should promote good growth of spring growing grasses. Some areas of frozen ground have been noted under the snow and this may contribute to increased rates of runoff if thawing weather should set in.

Forecast runoff of the Little Colorado River above Lyman has not been adjusted for changes in storage in the Greer lakes. Present indications are that less runoff will be absorbed by these lakes than in recent years. The forecasted runoff into Lyman Reservoir, therefore, requires adjustment for this factor before use. No historical data relating to volumes in storage in the Greer lakes is available in the snow survey office.

### Gila and San Francisco River Basin

There has been some loss of moisture from this basin but overall runoff prospects have not changed much in the last two weeks. In some areas, particularly along the upper Frisco, heavy frozen snow with densities of around 50% has been reported. Heavy snow packs have also been reported from some high elevation locations. Unfortunately, there is insufficient snow course coverage of these areas to permit proper evaluation of the reported conditions. It is apparent from the reports, however, that there may be considerable areas where conditions exist that could contribute to very rapid runoff and locally high peak flows of probably rather short duration.

Snow to a depth of 4 feet has been reported from parts of the wilderness area. There is no information whether this is merely drift accumulation of limited extent or if it represents average coverage of considerable areas. If the latter, present runoff forecasts would need to be revised upward.

Soils are generally quite wet over these basins except at the lower elevations that have had deficient precipitation. There should be adequate soil moisture at all other elevations to promote a good growth of spring growing grasses and browse. Very little of the snow stored water will be absorbed by the soils on this basin.



#### Other Basins

There has been no storm activity over the Bill Williams and Agua Fria basins since the storm of February 16, which dropped some minor amounts of snow on the upper parts of both basins. There is no snow remaining, however, except at well protected locations at high elevations. No runoff from snow melt is now anticipated in these basins.



STREAM FLOW FORECASTS - MARCH 1, 1956

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature during the forecast period will be near average. Appreciable deviations from normal of temperature and/or precipitation during the forecast period will correspondingly modify these forecasts.

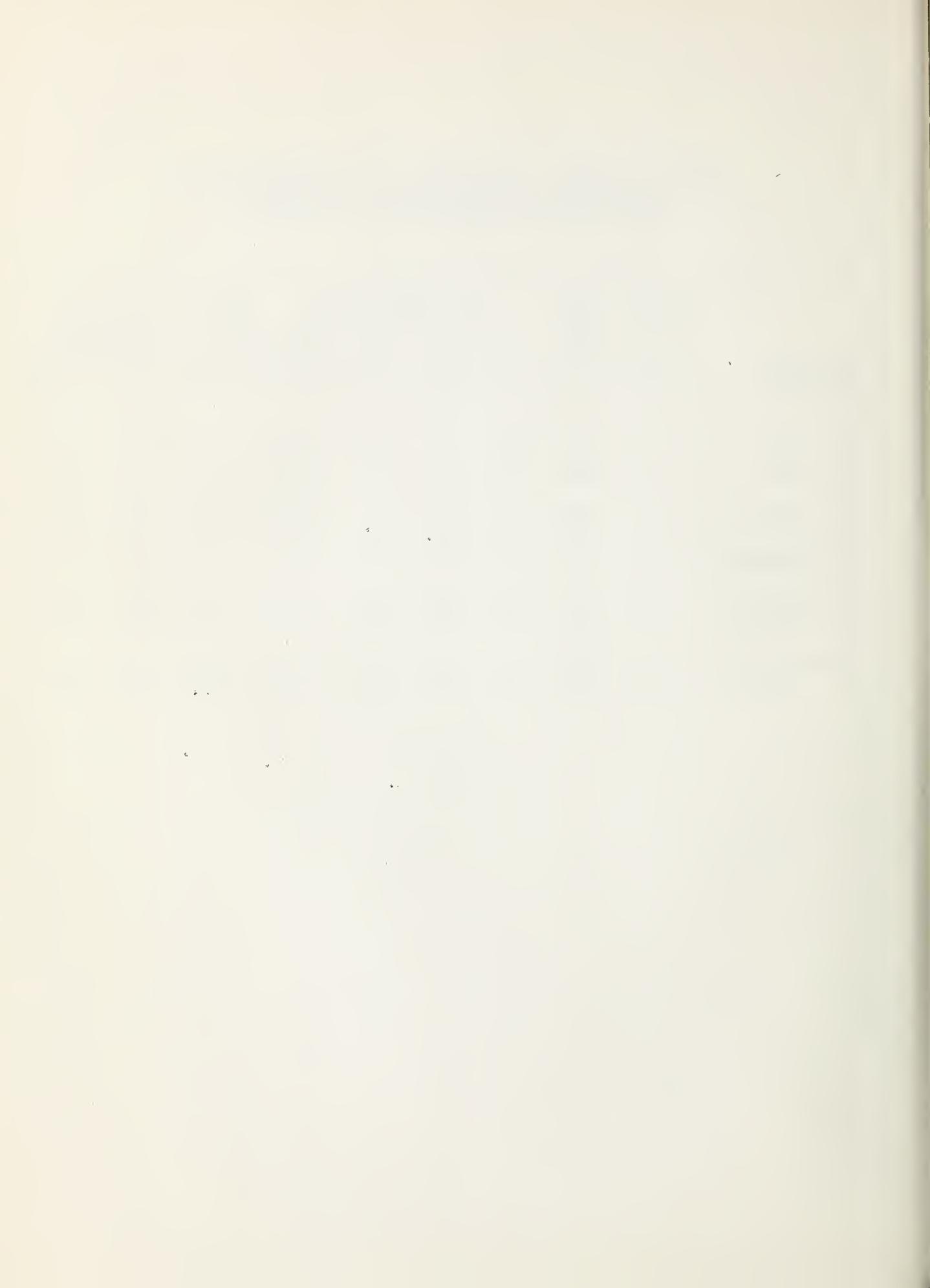
BASIN, STREAM AND STATION	SEASONAL STREAM FLOW IN THOUSANDS OF ACRE FEET								
	Forecast Runoff 1956	Percent 15-Year Average 1955	15-Year Average 1954 1953 1938-52						
			March - May, Inclusive	143.	48.	36.5	214.1	128.3	290.4
Salt River at Intake			FORECAST PERIOD March - May, Inclusive						
Tonto River above Roosevelt	1/ 15.5	46.	2.6	29.5	24.8	34.0			
Verde River above Horseshoe	46.	26.	41.5	163.9	39.7	179.8			
FORECAST PERIOD February - May, Inclusive									
Gila River at Virden	24.	40.	10.7	24.3	26.0	59.9			
Frisco River at Clifton	20.	39.	9.0	30.1	16.5	51.7			
FORECAST PERIOD February - June, Inclusive									
Little Colorado River above Lyman Dam 1/	4.0	44.	0.3	1.7	2.1	9.1			

1/ Average is for less than 15 years in the 1938-52 period.



SUMMARY OF MARCH 1 SNOW SURVEYS AND COMPARISON OF DATA  
WITH THAT OF PREVIOUS YEARS BY WATERSHED

WATERSHEDS	No. of Courses	Snow Depth in 1956	Snow Water Content in Inches			1938-52 Average	Snow Density 1956	1956 Water Content in Percent of 1955	1956 Average
			1956	1955	1954				
Gila River	8	7.3	2.5	1.4	0.8	1.9	34	179	132
Salt River	14	13.2	4.1	3.3	1.3	3.3	31	124	124
Verde River	9	3.8	1.2	3.8	0.2	3.4	32	32	35
Williams River	2	0.0	0.0	0.0	0.0	1.6	--	--	--
Lower Colorado River	4	8.0	2.9	5.5	1.6	5.1	36	53	57
Little Colorado River	11	10.9	3.6	4.0	1.3	3.7	33	90	97



ARIZONA SNOW SURVEYS - MARCH 1, 1956

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS							
			1956			PAST RECORD			Water Content (In.)	1938-52
			Date of Sur- vey	Water Depth (In.)	Snow tent (In.)	1955	1954	Average		
<u>GILA RIVER</u>										
Nutrioso	9-S-4	8500	2/29	8.0	2.4	1.6	0.1	2.2	18	
Bear Wallow <u>2/3</u>	10-T-1	8100	2/29	11.0	3.6	5.4	1.5	2.3	8	
Frisco Divide	8-S-1	8000	2/29	8.0	3.0	1.7	0.2	2.0	18	
State Line	9-S-8	8000	2/29	10.0	3.7	2.4	0.3	2.8	18	
Coronado Trail	9-S-7	8000	2/29	10.0	2.9	3.1	0.0	3.5	18	
Beaver Head	9-S-6	8000	2/29	13.0	3.1	2.7	0.0	3.4	18	
Taylor Creek <u>2/</u>	7-S-1	7850	2/29	0.0	0.0	0.0	0.0	0.5	14	
Inman <u>2/</u>	7-S-2	7800	2/29	0.0	0.0	0.0	T	0.7	10	
Rose Canyon <u>2/3</u>	10-T-2	7300	2/29	3.0	1.2	0.9	0.0	0.5	8	
Mogollon <u>2/</u>	8-S-2	7000	2/29	9.0	4.6	0.0	0.0	-	3	
Black Canyon <u>2/3/</u>	7-S-3	6790	Report	Delayed		0.0	0.0	-	3	
<u>SALT RIVER</u>										
Ft. Apache <u>1/2/</u>	9-R-5	9160	3/3	27.0	8.7	4.8	5.4	6.7	6	
Baldy <u>1/2/</u>	9-S-1	9125	3/3	20.0	6.1	4.8	5.2	7.0	6	
Maverick Fork <u>2/</u>	9-S-2	9020	3/3	30.0	9.7	7.0	4.1	10.9	6	
Nutrioso <u>1/</u>	9-S-4	8500	2/29	8.0	2.4	1.6	0.1	2.2	18	
Coronado Trail	9-S-7	8000	2/29	10.0	2.9	3.1	0.0	3.5	18	
Beaver Head	9-S-6	8000	2/29	13.0	3.1	2.7	0.0	3.4	18	
Pacheta <u>2/</u>	9-S-5	7800	2/28	20.0	4.9	3.5	0.0	3.0	6	
Gentry <u>2/</u>	10-R-5	7600	3/2	9.0	3.3	3.1	T	1.0	6	
Heber <u>2/</u>	10-R-4	7600	3/2	9.0	3.1	3.2	T	1.3	6	
Canyon Creek <u>2/</u>	10-R-3	7500	3/2	10.0	3.3	4.5	T	1.6	6	
McNary <u>1/2/</u>	9-R-2	7200	2/29	9.0	3.6	2.6	3.8	2.9	17	
Milk Ranch <u>2/</u>	9-R-1	7000	2/29	6.0	1.9	0.9	0.0	0.9	15	
Workman Creek <u>2/</u>	10-S-1	6900	2/28	12.0	3.4	3.1	0.0	0.0	4	
Forest Dale <u>2/</u>	10-R-6	6430	2/29	2.0	0.8	0.8	0.0	1.3	17	
<u>VERDE RIVER</u>										
Happy Jack <u>2/3/</u>	11-R-5	7630	3/1	9.0	3.7	6.3	-	4.2	5	
Gaddes Canyon <u>2/3/</u>	12-R-4	7600	2/29	9.0	3.1	5.2	T	-	2	
Monmon Mountain <u>2/</u>	11-R-3	7500	3/1	14.0	4.6	7.8	T	6.0	6	
Monmon Lake <u>1/2/</u>	11-R-4	7350	3/1	9.0	2.7	7.0	T	7.0	9	
Fort Valley <u>1/2/</u>	11-P-2	7350	2/29	3.0	1.0	4.0	T	3.2	9	
Mingus Mountain <u>2/</u>	12-R-3	7100	2/29	0.0	0.0	0.0	0.0	1.9	9	
Chalender <u>2/</u>	12-P-1	7100	2/29	2.0	0.6	4.9	1.6	3.7	9	
Casner Park <u>2/</u>	11-R-2	6930	3/1	6.0	2.1	5.9	0.0	4.4	5	
Munds Park <u>2/</u>	11-R-1	6500	3/1	0.0	0.0	4.2	0.0	1.1	6	
Iron Springs <u>1/2/</u>	12-R-2	6200	2/29	0.0	0.0	0.0	0.0	2.0	10	
Camp Wood <u>2/</u>	12-R-1	5700	2/29	0.0	0.0	0.0	0.0	1.2	10	

1/ On adjacent drainage.

2/ Averages are for less than 15 years of record in the 1938-52 period.

3/ Not included in watershed average.



ARIZONA SNOW SURVEYS - MARCH 1, 1956

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS						Pre- vious Yrs. of Record	
			1956			PAST RECORD				
			Date Sur- vey	Water of Snow Sur- vey	Con- tent (In.)	Water Content (In.)	1955	1954	Average	
WILLIAMS RIVER										
Iron Springs <sup>2/</sup>	12-R-2	6200	2/29	0.0	0.0	0.0	0.0	0.0	2.0	10
Camp Wood <sup>1/2/</sup>	12-R-1	5700	2/29	0.0	0.0	0.0	0.0	0.0	1.2	10
Willow Ranch <sup>2/3/</sup>	13-P-1	5000	Report	Delayed		0.0	0.0	0.3		10
LOWER COLORADO RIVER										
Bright Angel <sup>2/</sup>	12-N-1	8400	2/29	23.0	7.1	8.8	4.8	10.6		9
Grand Canyon <sup>2/</sup>	11-P-1	7500	2/29	4.0	1.2	4.4	T	2.7		9
Fort Valley <sup>2/</sup>	11-P-2	7350	2/29	3.0	1.0	4.0	T	3.2		9
Chalender <sup>1/2/</sup>	12-P-1	7100	2/29	2.0	0.6	4.9	1.6	3.7		9
LITTLE COLORADO RIVER										
Ft. Apache <sup>2/</sup>	9-R-5	9160	3/3	27.0	8.7	4.8	5.4	6.7		6
Baldy <sup>2/</sup>	9-S-1	9125	3/3	20.0	6.1	4.8	5.2	7.0		6
Nutrioso	9-S-4	8500	2/29	8.0	2.4	1.6	0.1	2.2		18
Happy Jack <sup>1/2/3/</sup>	11-R-5	7630	3/1	9.0	3.7	6.3	-	4.2		5
Gentry <sup>2/</sup>	10-R-5	7600	3/2	9.0	3.3	3.1	T	1.0		6
Heber <sup>2/</sup>	10-R-4	7600	3/2	9.0	3.1	3.2	T	1.3		6
Canyon Creek <sup>2/</sup>	10-R-3	7500	3/2	10.0	3.3	4.5	T	1.6		6
Mormon Mountain <sup>2/</sup>	11-R-3	7500	3/1	14.0	4.6	7.8	T	6.0		6
Mormon Lake <sup>2/</sup>	11-R-4	7350	3/1	9.0	2.7	7.0	T	7.0		9
Fort Valley <sup>2/</sup>	11-P-2	7350	2/29	3.0	1.0	4.0	T	3.2		9
McNary <sup>2/</sup>	9-R-2	7200	2/29	9.0	3.6	2.6	3.8	2.9		17
Forest Dale <sup>2/</sup>	10-R-6	6430	2/29	2.0	0.8	0.8	0.0	1.3		17

1/ On adjacent drainage.

2/ Averages are for less than 15 years of record in the 1938-52 period.

3/ Not included in watershed average.



ARIZONA SNOW SURVEYS - DELAYED REPORTS RECEIVED  
SINCE LAST BULLETIN  
(February 15, 1956)

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS - 1956		
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)
<u>GILA RIVER</u>					
Black Canyon	7-S-3	6790	2/14	0.0	0.0
<u>SALT RIVER</u>					
Baldy	9-S-1	9125	2/22	23.8	6.6
Maverick Fork	9-S-2	9020	2/22	33.7	10.6
<u>VERDE RIVER</u>					
Happy Jack	11-R-5	7630	2/23	11.0	5.0
<u>WILLIAMS RIVER</u>					
Willow Ranch	13-P-1	5000	2/16	4.0	0.8
<u>LITTLE COLORADO RIVER</u>					
Happy Jack	11-R-5	5000	2/23	11.0	5.0



STATUS OF RESERVOIR STORAGE - MARCH 1, 1956

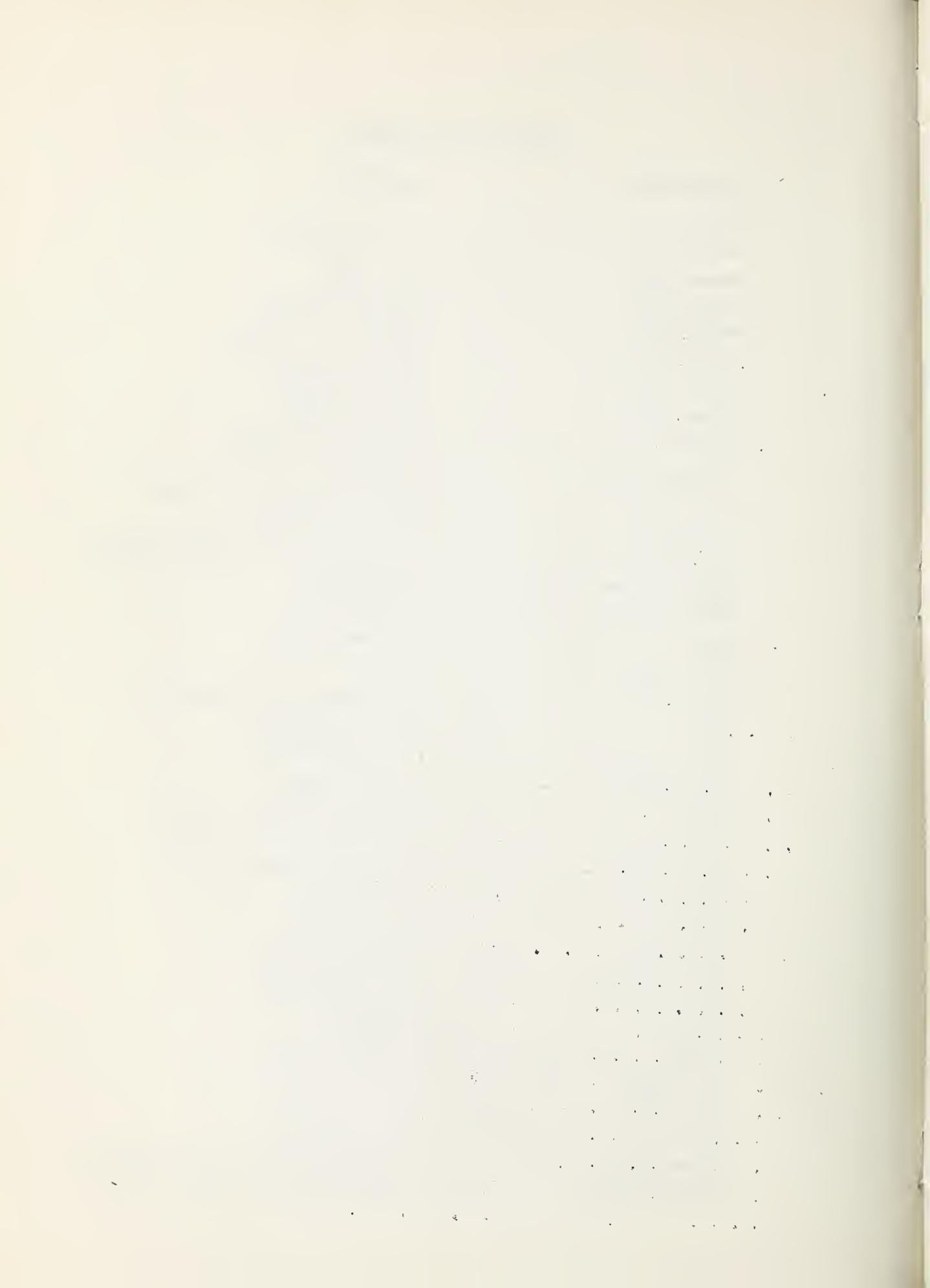
BASIN and STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET			
			1956	1955	1954	15-Year Average 1938-52
Agua Fria	Lake Pleasant 1/	163.8	27.8	23.1	33.0	24.3
Colorado	Lake Hayasu 1/	688.0	592.1	616.3	611.0	568.0
Colorado	Lake Mohave 1/	1,810.0	1,710.3	1,709.7	1,691.0	1,107.0
Colorado	Lake Mead	27,207.0	11,038.0	11,869.0	16,138.0	18,855.0
Gila	San Carlos	1,205.0	76.0	34.9	0.4	183.3
Verde	Bartlett 1/	180.0	85.2	65.0	40.0	57.3
Verde	Horseshoe 1/	143.0	2.2	1.8	11.0	18.9
Salt	Roosevelt	1,381.6	236.2	464.3	572.0	427.8
Salt	Apache	245.1	242.5	240.4	243.0	188.1
Salt	Canyon	57.8	54.6	54.3	57.0	37.6
Salt	Saguaro	69.8	65.4	55.2	57.0	28.5
Little Colorado	Lyman 1/	30.6	Report Delayed	1.9	0.8	8.4
Little Colorado	Show Low Lake 1/	5.1	0.3	0.2	0.1	--

1/ Average is for less than 15 years of record in the 1938-52 period.



LIST OF SNOW SURVEYORS

<u>SNOW COURSE</u>	<u>SURVEYOR</u>
Baldy . . . . .	SCS and SRVWU
Bear Wallow . . . . .	J. R. Brinkley
Beaver Head . . . . .	Jess Burke
Black Canyon . . . . .	Robert M. White
Bright Angel . . . . .	Hillis and Hillis
Camp Wood . . . . .	Mrs. C. C. Merritt
Canyon Creek . . . . .	SCS and SRVWU
Casner Park . . . . .	SCS and SRVWU
Chalender . . . . .	Oleson and Gossard
Coronado Trail . . . . .	McAdams
Forest Dale . . . . .	Robinson, Karty and Bread
Ft. Apache . . . . .	SCS and SRVWU
Fort Valley . . . . .	Rocky Mt. F. & R. Exp. Station
Frisco Divide . . . . .	Weissenborn
Gaddes Canyon . . . . .	Richard Enz
Gentry . . . . .	SCS and SRVWU
Grand Canyon . . . . .	Lynch
Happy Jack . . . . .	Emil Ryberg and Vance Keys
Heber . . . . .	SCS and SRVWU
Inman . . . . .	C. H. McCauley
Iron Springs . . . . .	Ernest Saxby
McNary . . . . .	Robinson, Karty and Bread
Maverick Fork . . . . .	SCS and SRVWU
Milk Ranch . . . . .	Robinson, Karty and Bread
Mingus Mountain . . . . .	Richard Enz
Mogollon . . . . .	J. R. Wray
Mormon Lake . . . . .	SCS and SRVWU
Mormon Mountain . . . . .	SCS and SRVWU
Munds Park . . . . .	SCS and SRVWU
Nutrioso . . . . .	McAdams
Pacheta . . . . .	Foch Phillips
Rose Canyon . . . . .	J. R. Brinkley
State Line . . . . .	Weissenborn
Taylor Creek . . . . .	C. H. McCauley
Willow Ranch . . . . .	Tiny Miller and LeRoy Tingstrom
Workman Creek . . . . .	Rocky Mt. F. & R. Exp. Station



The following organizations cooperate in the Arizona snow survey work:

FEDERAL

Department of Agriculture

Soil Conservation Service

Forest Service

Apache Forest

Coconino Forest

Coronado Forest

Gila Forest

Kaibab Forest

Prescott Forest

Rocky Mountain Forest and Range Experiment Station

Department of Commerce

Weather Bureau

Arizona Section

Department of Interior

Bureau of Reclamation

Region III

Geological Survey

Arizona District

Bureau of Indian Affairs

Fort Apache Reservation

National Park Service

Grand Canyon National Park

Gila Water Commissioner, Safford, Arizona

IRRIGATION PROJECTS

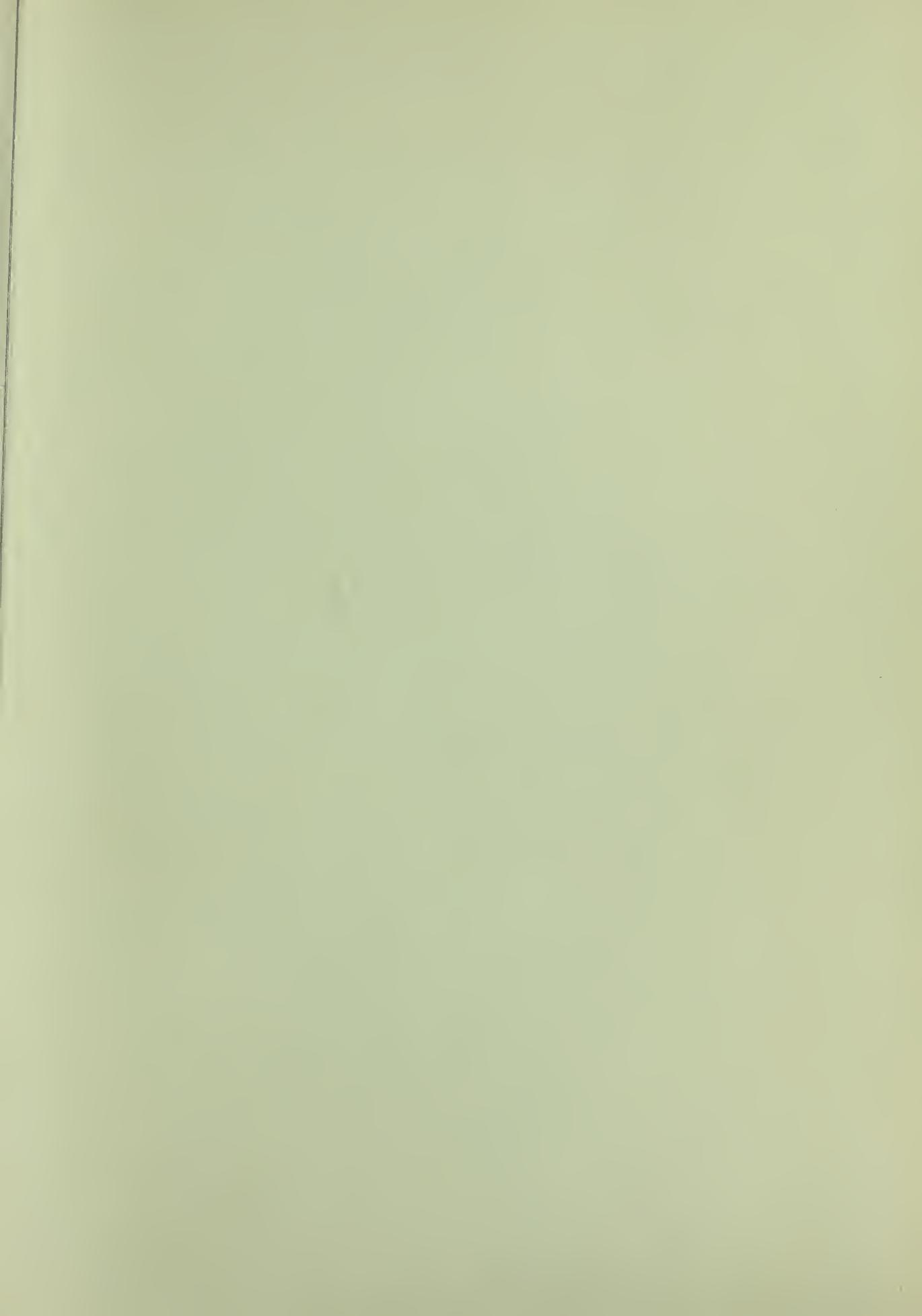
Salt River Valley Water Users' Association  
Phoenix, Arizona

San Carlos Irrigation and Drainage District  
Coolidge, Arizona

SOUTHWEST LUMBER MILLS, INC., McNary, Arizona

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.





### **Federal - State - Private**

## COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

## **“WATER IS THE WEST’S GREATEST RESOURCE”**